

## EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 06260869  
PUBLICATION DATE : 16-09-94

APPLICATION DATE : 04-03-93  
APPLICATION NUMBER : 05069357

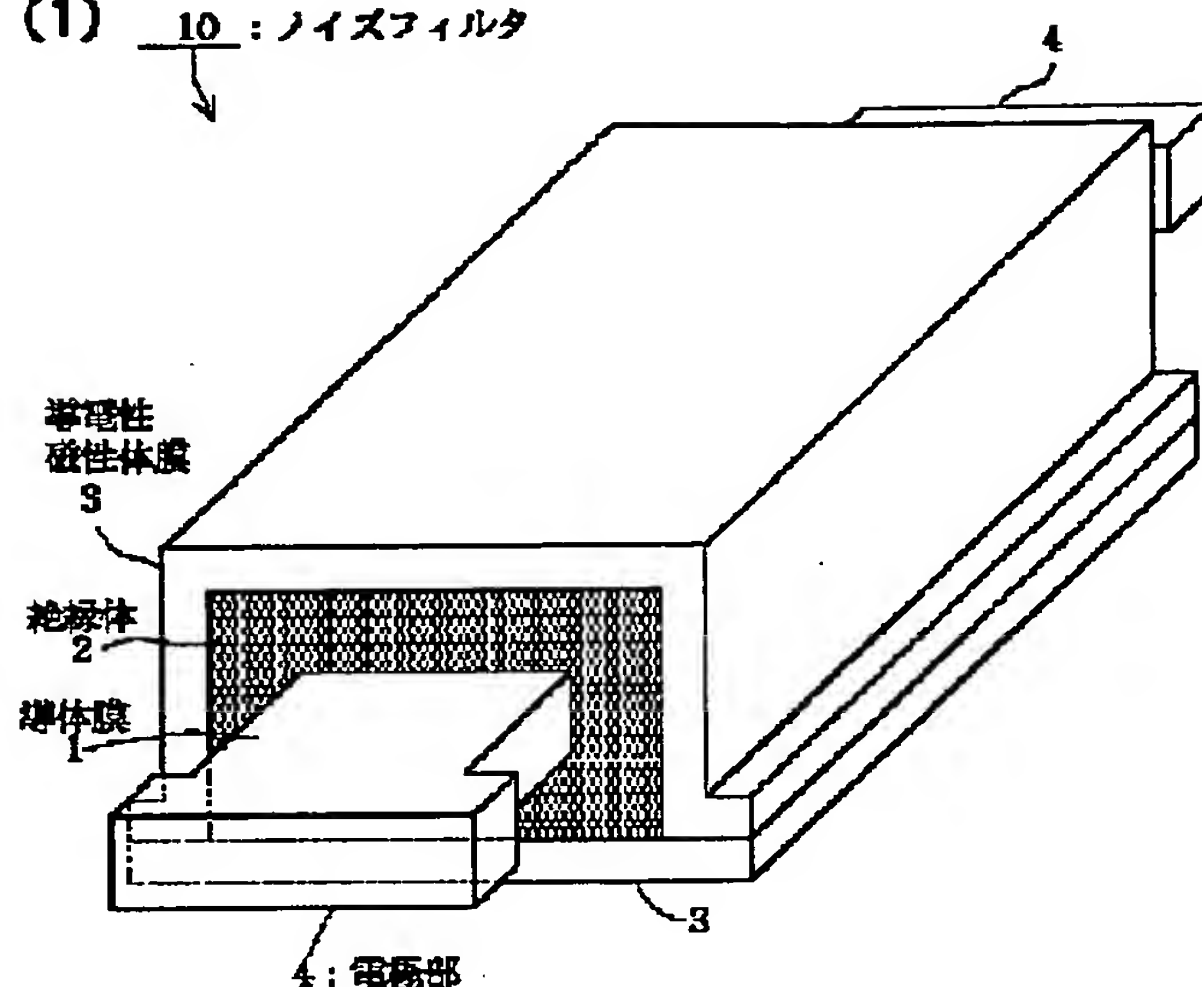
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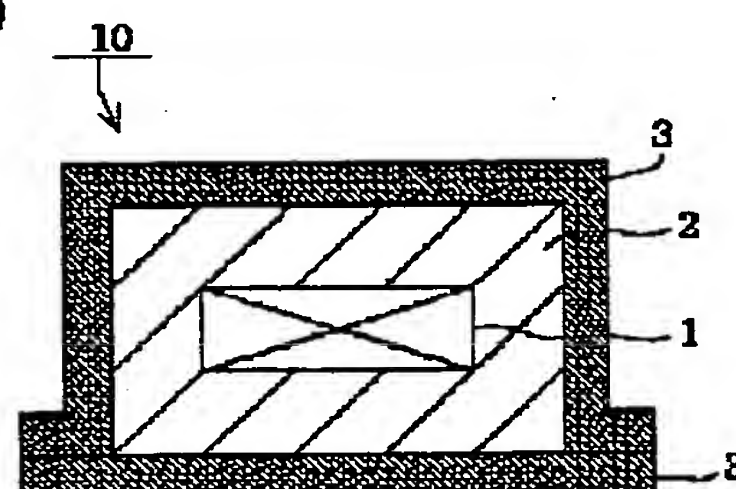
INT.CL. : H03H 7/075 H01F 15/00 H01F 17/00

TITLE : NOISE FILTER

(1) 10 : ノイズフィルタ



(2)



ABSTRACT : PURPOSE: To miniaturize a noise filter by arranging a magnetic body film around or on both sides of a conductor film and sticking the magnetic body film to the conductor film with an insulator between them in the case of the magnetic body film being conductive and directly sticking the magnetic body film to the conductor film in the case of the magnetic body film having an insulating property.

CONSTITUTION: Electrode parts 4 are arranged in both ends of a conductor film 1, and a conductive magnetic body film 3 is arranged around the one-body conductor film 1. This film 3 is stuck to the conductor film 1 with an insulator 2 between them. The film 3 has the multi-layered structure where a metallic magnetic body layer and a nonmagnetic insulator layer are alternately laminated. When a conductive metallic magnetic body is used as materials of the film 3, the frequency characteristic of the impedance depends upon the thickness of the metallic magnetic body regardless of the same materials. That is, when a desired frequency characteristic is to be obtained, the thickness of the metallic magnetic material layer is set 1/10 to 10 times as deep as the skin depth in the frequency band, and that of the nonmagnetic insulator layer is set to such a value or larger that electric insulation between metallic magnetic body layers can be kept, and they are laminated.

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